

1997

Three Hundred and Forty-Sixth Report of the Curricular Affairs Committee

University of Rhode Island Faculty Senate

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UNIVERSITY OF RHODE ISLAND
Kingston, Rhode Island
FACULTY SENATE
BILL
Adopted by the Faculty Senate

TO: President Robert L. Carothers

FROM: Chairperson of the Faculty Senate

1. The attached BILL, titled Three Hundred and Forty-Sixth Report
of the Curricular Affairs Committee,
is forwarded for your consideration.
2. The original and two copies for your use are included.
3. This BILL was adopted by vote of the Faculty Senate on February 27,
1997.
4. After considering this bill, will you please indicate your approval
or disapproval. Return the original or forward it to the Board of
Governors, completing the appropriate endorsement below.
5. In accordance with Section 10, paragraph 4 of the Senate's By-Laws,
this bill will become effective March 20, 1997, three weeks
after Senate approval, unless: (1) specific dates for implementation
are written into the bill; (2) you return it disapproved; (3) you
forward it to the Board of Governors for their approval; or (4) the
University Faculty petitions for a referendum. If the bill is
forwarded to the Board of Governors, it will not become effective
until approved by the Board.

February 28, 1997
(date)

James G. Kowalski
James G. Kowalski
Chairperson of the Faculty Senate

ENDORSEMENT

TO: Chairperson of the Faculty Senate

FROM: President of the University

Returned.

- a. Approved ✓.
- b. Approved subject to final approval by Board of Governors ____.
- c. Disapproved ____.

3.7.97
(date)

Robert L. Carothers
President

UNIVERSITY OF RHODE ISLAND
Kingston, Rhode Island

FACULTY SENATE

February 12, 1997

Faculty Senate Curricular Affairs Committee
Three Hundred and Forty-Sixth Report

At the January 27, 1997 meeting of the Curricular Affairs Committee the following matters were considered and are now presented to the Faculty Senate.

S E C T I O N I

Informational Matters

A. College of Arts and Sciences

1. Department of History

CHANGE: Title and description for the following courses:

- 1) HIS 300 Ancient Greece: Hellenic and Hellenistic Period From the Trojan wars to Alexander the Great 800 BC - 300 BC (II, 3) Social, economic, political and intellectual development of Greece from the Archaic to Hellenistic period. (Lec. 3) Pre: 111 or GRK 109 or 110 or permission of instructor. Staff
- 2) HIS 303 From Republic to Empire Ancient Rome (I, 3) Social, economic, political and intellectual history of Ancient Rome covering the foundation of the city, the Roman Republic and Empire and the spread of Christianity. From about 750 BC to about 300 AD. (Lec. 3) Pre: 111 or 112 or permission of instructor. Staff (F)

2. Department of Languages

a. CHANGE: Number, title and prerequisite for FRN 305 and 306 as follows:

- 1) FRN 304 (305) French Composition II ...
Pre: FRN 204.
- 2) FRN 307 (306) Oral Expression II ...
Pre: FRN 207.

- b. CHANGE: Prerequisite for FRN 303 to "Pre: 204 or 207 or permission of instructor."

B. College of Engineering

1. Department of Civil and Environmental Engineering

- CHANGE: Prerequisite for CVE 220 to "Pre: MCE 262 or concurrent enrollment."

2. Department of Electrical and Computer Engineering

- a. CHANGE: Semester for ELE 322 to "II".

- b. CHANGE: Description, semester and prerequisite for ELE 342 as follows:

ELE 342 Electronics I (I, 4) Introduction to semiconductor devices, diode and transistor circuits. Biasing, analysis, and design of BJT and FET amplifiers. SPICE, power amplifiers, digital logic families, TTL, ECL, CMOS. (Lec. 3, Lab. 3) Pre: 212 and 215.
Staff

3. Department of Industrial and Manufacturing Engineering

- CHANGE: Prerequisite for IME 325 to "Pre: 220, EGR 106 and MTH 141."

C. Four-Credit Courses

The approval of four-credit courses, including General Education skill-intensive courses, will be carried out according to the following prescription:

- a) For courses which have the equivalent of four contact hours, (Lec. 4), (Lec. 3, Lab. 2),..., approval will follow current procedures.

Otherwise:

- b) For 3-credit courses in which a fourth credit is proposed, it will be the responsibility of the proposer to document that an additional 42 hours of related work (3 hours/week x 14 weeks) will be required of the students, compared to the current work load.*
- c) For new four credit courses, the approval process will have a two-part format. The proposer will
- 1) describe an acceptable three-credit course;

* the notation "+" will be included in the method of instruction, e.g. "(Lec. 3+)."

- 2) document the additional 42 hours of related work that would be required to create the proposed four-credit course.*

The standards used to evaluate the proposals will be consistent with current practices.

* * * * *

S E C T I O N I I

Curricular Matters Which Require Confirmation by the Faculty Senate

A. College of Arts and Sciences

1. Bachelor of Arts - Double Major Program in Elementary Education

CHANGE: Program requirements for the elementary education major as follows:

- 1) reducing the number of credits from 138 to 124;
- 2) adding HIS 141 as an option to the currently required HIS 142;
- 3) adding HDF 200 as an option to the currently required PSY 232;
- 4) requiring a minimum of 6 credits of free electives

2. Department of Biological Sciences

- a. CHANGE: Course code to BIO for the following BOT and ZOO courses:

BOT 311, 321, 323, 332; BOT or ZOO 262, 352; ZOO 141, 201, 202, 203, 242, 244, 301, 327, 329, 331, 343. 355, 381, 382.

- b. CHANGE: Course code to BIO and number for the following courses:

- 1) BOT 111 TO BIO 112;
- 2) ZOO 101 to BIO 205;
- 3) ZOO 102 to BIO 204;
- 4) ZOO 104 to BIO 206;
- 5) ZOO 111 to BIO 113.

- c. CHANGE: Prerequisite for the following courses:

- 1) BIO 202: change "zoology" to "biological sciences" in the prerequisite.
- 2) BIO 204: add "Pre: one semester of biological sciences."

* the notation "+" will be included in the method of instruction, e.g. "(Lec. 3+)."

- d. CHANGE: Course code to BIO for ZOO 121; add B.A. Biology and B.S. Biological Sciences to list of majors that may take BIO 121; method of instruction to "(Lec. 2, Lab. 4)."
- e. CHANGE: Course code to BIO for ZOO 286 and restriction from Zoology to B.S. Biological Sciences.
- f. CHANGE: Course code to BIO for ZOO 341; replace "zoology" with "biology."
- g. CHANGE: Course code to BIO for ZOO 395; replace "zoological" and "zoology" with "biological" and "biology."
- h. CHANGE: Course code to BIO for ZOO 397, 398; title to "Colloquium in Biological Sciences"; replace "zoology" with "biology"; replace "zoology majors" with "biological sciences majors."
- i. CHANGE: The requirements for the B.S. Zoology Program and rename as B.S. Program Biological Sciences as follows:
 - 1) Change the minimum number of credits required in the major from 30 to 35;
 - 2) Require BIO 112 and BIO 113 [changed from BOT 111 and ZOO 111];
 - 3) Require one course from at least four of the six following areas:
 - Cell and Development (BIO 202, 453);
 - Ecology (BIO 206, 262);
 - Genetics (BIO 352);
 - Molecular Biology (BIO 437);
 - Organismal Diversity (BIO 204, 311, 321, 464, 466);
 - Physiology (BIO 201, 242/244, 447).
 - 4) Require 15 additional credits chosen from lists A, B, or C (below) and require that at least three credits be taken from list A (botanical courses) and three credits from list B (zoological courses).

List A: BIO 311, 321, 323, 418, 419, 432, 447, 465

List B: BIO 121, 141, 201, 202, 204, 205, 242, 244, 327, 329, 331, 355, 381, 382, 441, 442, 445, 446, 464, 466, 467

List C: BIO 203, 206, 262, 352, 437, 451, 453, 454, 455, 457, 458, 460

- 5) Add MIC 211 to the current list of required courses in the associated sciences.

j. CHANGE: The requirements in the B.A. Biology program as follows:

- 1) Require BIO 112 and 113;
- 2) Require a minimum of three credits from List A (botanical), three credits from List B (zoological), and three credits from List C (neutral--typically courses that have both a botanical and zoological, content).
- 3) Continue to require one year of chemistry but add the phrase "with laboratories" to the chemistry requirement.
- 4) Continue to require MIC 211 and a minimum of 28 credits of BIO or MIC for the major.

3. Department of Languages-French

a. ADD: The following courses:

- 1) FRN 201 French Pronunciation (I and II, 1)
The sounds of French; relationship between spelling and pronunciation; regional variation. Practice in pronouncing French prose and poetry. (Lab. 2) Pre: 104 or equivalent or permission of instructor. K. Rogers
- 2) FRN 204 French Composition I (I and II, 3)
Practice in writing French; topics selected from everyday events and readings in French; emphasis on vocabulary building; some grammar study, frequent compositions. (Lec. 3) Pre: 104 or equivalent or permission of instructor. Staff
- 3) FRN 207 French Oral Expression I (I and II, 3)
Training in the spontaneous use of oral French. Students will extend the quantity and quality of spoken French that they are able to produce. Special focus on narration or story-telling in French. (Lec. 3) Pre: 104 or equivalent or permission of instructor. Staff
- 4) FRN 309 French Culture and Literature to 1789 (I and II, 3)
Survey of the significant developments in the arts, society and literature in French from the Middle Ages to the French Revolution. (Lec. 3) Pre: 204 or permission of instructor. Staff

- 5) FRN 310 Modern French Culture and Literature (I and II, 3) Survey of the significant developments in the arts, history and literature in France from the French revolution to the present. (Lec. 3) Pre: 204 or permission of instructor. Staff
- 6) FRN 315, 316 French Internship Abroad (I and II, 3) Supervised work experience in a French-speaking country for advanced language students. (Prac. 3) Pre: two-hundred level French course or equivalent or permission of instructor. Staff
- 7) FRN 318 French Across the Curriculum (I and II, 1) Reading and discussion of original French texts in conjunction with courses throughout the university curriculum. Designed to maintain and improve French language skills and to enrich study through exposure to texts in the original language. (Lec. 1) Pre: permission of instructor. May be repeated. Staff

b. DELETE: The following courses:

- 1) FRN 205, 206 Conversation and Composition (I and II, 3 each)
- 2) FRN 301, 302 The Civilization of France I, II (I and II, 3 each)
- 3) FRN 327 Survey of French Literature from the Middle Ages to 1789 (I, 3)
- 4) FRN 328 Survey of French Literature from 1789 to Present (II, 3)

c. CHANGE: Requirements for the French major by replacing "They may elect a language-civilization option requiring six credits in civilization...courses at the 500-level" with "They must elect a minimum of three credits from among FRN 412, 473 or 474."

4. Department of Mathematics

a. CHANGE: Requirements for B.S. degree program in mathematics as follows:

- 1) Delete PHY 213, 214, 285, 286 as a requirement in the General Option.
- 2) Add CSC 211 and 212 as a requirement.
- 3) In the Applied Option, delete PHY 213, 214, 285, 286 as an option within Group II (Applications).
- 4) Add MTH 442 to the list of Group I electives.
- 5) delete MTH 307 as a program requirement.

- b. CHANGE: Requirements for the B.A. degree program:

Delete MTH 307 as a program requirement.

5. Department of Political Science

ADD: PSC 305 Politics in Rhode Island (II, 3)
Exploration of politics and policy process in an age of New Federalism in Rhode Island.
Examination of the political development of the state and the contemporary character of state politics. Pre: six credits in social sciences.
(Lec. 3) Moakley and Sundlun

B. College of Business Administration

Department of Management Science and Information Systems

- a. CHANGE: Level, number and prerequisite for MSI 420 as follows:

MSI 320 (420) ... Pre: BAC 110

- b. CHANGE: Curriculum by replacing a major elective in the second semester of the junior year with MSI 320.

C. College of Engineering

1. Department of Civil and Environmental Engineering

- a. ADD: The following courses:

- 1) CVE 250 Introduction to CADD for Civil Engineers (I and II, 4) Introduces computer-aided design and drafting (CADD) and emphasizes its various applications to Civil Engineering. Hardware and software issues are discussed. (Lec. 3, Lab. 3) Pre: EGR 106. Karamanlides and Marcus
- 2) CVE 221 Mechanics of Materials Laboratory (I and II, 1) Introduction to the physical and mechanical properties of civil engineering construction materials including steel, wood, portland cement concrete, bituminous asphalt concrete and polymers. Experimental evaluation of fundamental material properties and behavior under a variety of controlled laboratory conditions. (Lab. 3) Pre: concurrent enrollment in 220. Required for Civil Engineering students only. Staff

b. DELETE: The following courses

- 1) CVE 216 Introduction to Civil and Environmental Engineering Systems (I, 3)
- 2) CVE 322 Civil Engineering Laboratory (I and II, 2)

c. CHANGE: Curricular requirements for Civil and Environmental Engineering

Freshman Year

1st Sem.: 16 cr.

3 CHM 101

1 CHM 102

1 EGR 105

4 MTH 141

3 PHY 203

1 PHY 273

3 GenEd elective

2nd Sem.: 16 cr.

3 ECN 201 (S)

2 EGR 106

4 MTH 142

3 PHY 204

1 PHY 274

3 GenEd elective

Sophomore Year

1st Sem.: 17 cr.

4 CVE 250 ^a

3 CVE 220

1 CVE 221

3 MCE 262

3 MTH 243

3 PHY 205

1 PHY 275

3 GenEd elective

2nd Sem.: 17 cr.

3 CVE 220 ^a

1 CVE 221

4 CVE 250

4 GEL 103

3 MCE 263

3 MTH 244

3 GenEd elective

Junior Year

1st Sem.: 17 cr.

3 GenEd elective

3 CVE 352

4 CVE 374

4 CVE 381

3 MCE 354

2nd Sem.: 18 cr.

3 GenEd elective

4 CVE 347

3 CVE 353

4 CVE 370

1 CVE 397

3 STA 409

Senior Year

1st Sem.: 14 cr.

3 CVE 465

2 CVE 497

6 Prof. Electives

3 GenEd elective

2nd Sem.: 15 cr.

3 CVE 498

6 Prof. Electives

3 Free Elective

3 GenEd elective

Total Credits 130

^a Students can take CVE 220 and CVE 221 or CVE 250 in either the fall or spring semester

2. Department of Electrical and Computer Engineering

a. CHANGE: Credits and description for ELE 314:

ELE 314 Linear Systems and Signals (I and II, 3) Continuous-time and discrete-time systems, frequency response, stability criteria, z-transforms, filters, sampling, introduction to control systems, and applications. (Lec. 3) Pre: 313. Staff

- b. ADD: ELE 305 Introduction to Computer Architecture (I and II, 3) Architecture of digital computers. CPU microarchitecture. Instruction execution cycle. Instruction sets. The memory hierarchy. Pipelining, instruction level parallelism, parallel computing. Networks. Register-level design and simulation of a simple computer. (Lec. 3) Pre: 201, 202, 205; and one of CSC 200, 201 or 211. Staff

- c. CHANGE: Curriculum for the Junior and Senior Years in Electrical Engineering:

Junior Year

First semester: 16 credits

3 ELE 313
3 ELE 305
3 ELE 331
4 ELE 342
3 GenEd requirements

Second semester: 17 credits

3 ELE 314
3 ELE 322
5 ELE 343
3 Mathematics elective
3 GenEd requirement

Senior Year

Total credits for two semesters: 31-33

1 ELE 400 Introduction to Professional Practice
3 Engineering elective
6 General Education requirements
3 Free elective
18-20 Electrical engineering design electives*

* ELE electives may be chosen from any five of the following: ELE 401, 405, 408, 423, 427, 432, 436, 437, 444, 447, 457, 458, 488, 489. However, two of the courses must be chosen from ELE 408, 427, 444, 447, 458, or 489.

Minimum Requirements

Humanities and Social Sciences (27 credits):

See the General Education requirements for the College of Engineering. Students should consult with their advisors regarding the distribution of credits and approved courses.

Mathematics (17 credits):

MTH 141, 142, 243, 362; three credits MTH elective (215, any 300- to 500-level course except MTH 381).

Basic Science (19 credits):

CHM 101, 102; PHY 203, 204, 274, 205, 275, 306.

Computer Science (3 credits):

CSC 200

Engineering Science and Design (61--63 credits):

EGR 105, 106; ELE 201, 202, 205, 212, 215, 305, 313, 314, 322, 331, 342, 343, 400; one engineering elective (chosen from CHE 332, 347, 437; IEM 404, 411, 412; MCE 323, 354, 458; or OCE 410); five electrical engineering design electives (chosen from ELE 410, 405, 408, 423, 427, 432, 436, 437, 444, 447, 457, 458, 488, 489; two of these courses must be chosen from ELE 408, 427, 444, 447, 458, or 489).

Free Elective: 3 credits.

This major requires 130-132 credits.

d. CHANGE: Curriculum in Computer Engineering:

The major requires 129-131 credits.

Freshman Year

1st Sem.: 17 cr.

4 CSC 211
4 MTH 141
3 CHM 101
1 CHM 102
3 PHY 203
1 PHY 273
1 EGR 105

2nd Sem.: 17 cr.

4 CSC 212
4 MTH 142
3 PHY 204
1 PHY 274
3 ECN 201
2 EGR 106

Sophomore Year

1st Sem.: 17 cr.

3 ELE 201
1 ELE 202
3 CSC 301
3 MTH 243
3 PHY 205
1 PHY 275
3 GenEd requirements

2nd Sem.: 17 cr.

3 ELE 205
3 ELE 212
2 ELE 215
3 MTH 362
6 GenEd requirements

Junior Year

1st Sem.: 16 cr.

3 ELE 305
4 ELE 342
3 MTH or CSC 447
3 IME 411 or
3 MTH 451
3 GenEd requirements

2nd Sem.: 16 cr.

4 ELE 305
3 ELE 437
3 CSC 331
6 GenEd requirements

Senior Year

1st Sem.: 15-16 cr.	2nd Sem.: 14-15 cr.
3 CSC 402	4 ELE 408
3-4 Comp Engi elective	3 CSC 412
3 Engi elective	3-4 Comp Engi elective
3 Free elective	1 ELE 400
3 GenEd requirement	3 GenEd requirement

Minimum Requirements**Humanities and Social Sciences (27 credits):**

See the General Educational requirements for the College of Engineering. Students should consult their advisors regarding distribution of courses and approved credits. (ECN 201 is included in 27 credit total.)

Mathematics (17 credits):

MTH 141, 142, 243, 362, 447.

Basic Science (16 credits):

CHM 101, 102; PHY 203, 273, 204, 274, 205, 275.

Computer Science (20 credits):

CSC 211, 212, 301, 331, 402, 412.

Engineering Sciences and Design (39 credits):

ELE 201, 202, 205, 212, 215, 305, 342, 405, 408, IME 411 or MTH 451, engineering elective, computer engineering elective.

Computer Engineering Elective - 6 or more credits from a list approved by the ELE Department; the current list is:

- 4 ELE 444 Advanced Electronic Design
- 4 ELE 447 VLSI Design and Simulation
- 3 CSC 420 Software Engineering
- 3 CSC 481 Artificial Intelligence
- 4 ELE 537 VLSI System Design
- 3 ELE 542 Fault-Tolerant Computing
- 4 ELE 543 Computer Networks
- 4 ELE 544 Computer Arithmetic for VLSI
- 4 ELE 545 Design of Digital Circuits
- 4 ELE 548 Computer Architecture
- 3 ELE 583 Computer Vision

An Engineering Elective for this curriculum is one of the following engineering science courses: CHE 332, 437; CVE 220; IME 404, 412; MCE 323, 341, 354; and OCE 410.

e. CHANGE: Curriculum in Biomedical Engineering:

The major requires 134-135 credits.

Freshman Year

1st Sem.: 16 cr.

3 CHM 101
1 CHM 102
1 EGR 105
4 MTH 141
3 GenEd requirement
3 PHY 203
1 PHY 273

2nd Sem.: 17 cr.

3 ECN 201
2 EGR 106
4 MTH 142
3 PHY 204
1 PHY 274
4 ZOO 111

Sophomore Year

1st Sem.: 16 cr.

3 CHM 124
3 CSC 200
3 ELE 201
1 ELE 202
3 GenEd requirement
3 MTH 243

2nd Sem.: 18 cr.

3 ELE 205
3 ELE 212
2 ELE 215
1 ELE 282
6 GenEd requirement
3 MTH 362

Junior Year

1st Sem.: 18 cr.

3 ELE 305
3 ELE 313
4 ELE 342
1 ELE 382
3 GenEd requirement
3 ZOO 242
1 ZOO 244

2nd Sem.: 18 cr.

3 ELE 314
3 ELE 322
5 ELE 343
1 ELE 482
3 Engineering elective
3 GenEd requirement

Senior Year

1st Sem.: 16-17 cr.

4 ELE 488
3-4 Elec engi design
elective
3 Engineering elective
3 Mathematics elective
3 GenEd requirement

2nd Sem.: 15 cr.

1 ELE 400
4 ELE 489
4 Electrical engineering
design elective2
3 Free elective
3 GenEd requirement

Minimum Requirements**Humanities and Social Sciences (27 credits):**

See the General Education requirements for the College of Engineering, listed on page 72. Students should consult with their advisors regarding distribution of credits and approved courses.

Mathematics (17 credits):

MTH 141, 142, 243, 362, three credits MTH elective (215, any 300- to 500-level course except MTH 381).

Basic Sciences (23 credits):

CHM 101, 102, 124; PHY 203, 273, 204, 274; ZOO 111, 242, 244.

Computer Science (3 credits):

CSC 200.

Engineering Sciences and Design (61-62 credits):

EGR 105, 106, ELE 201, 202, 205, 212, 215, 282, 305, 313, 314, 322, 342, 343, 382, 400, 482, 488, 489; two engineering electives (chosen from CHE 333, 347, 547; CVE 220, 374; ELE 331, 423; IME 404, 411, 412; MCE 323, 341, 354; and OCE 410. At least one course must be outside ELE.); two electrical engineering electives (chosen from ELE 401, 405, 408, 427, 432, 436, 437, 444, 447, 457, and 458).

Free Elective: 3 credits.

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S E C T I O N I I I

Joint Report of the Curricular Affairs Committee and Graduate Council on 400-level courses.

On February 11, 1997 and at the October 10, 1996 and January 27, 1997 meetings of the Curricular Affairs Committee and the December 13, 1996 and January 24, 1997 meetings of the Graduate Council, the following matters were considered and are now presented to the Faculty Senate.

A. Informational Matters**1. College of Arts and Sciences**

Department of Languages - French

- 1) **CHANGE:** Title and prerequisite for FRN 474 to "FRN 474 African Literature in French ... Pre: 309 or 310 or permission of instructor."
- 2) **CHANGE:** Prerequisite for the following courses:
 - a) FRN 402 to "Pre: 201 or permission of instructor."
 - b) FRN 473 to "Pre: 309 or 310 or permission of instructor."

2. College of Business Administration

Department of Management Science and Formation Systems

- ***CHANGE:** Prerequisite for MSI 410 by adding "Pre: 310, 320 or permission of instructor."

* No action by the Graduate Council. Not for graduate credit.

3. College of Human Science and Services

Department of Dental Hygiene

*ADD: DHY 491X Special Problems (I and II, 1-3)
Advanced work under the supervision of a
staff member arranged to suit the individual
requirements of the student. (Independent
Study) Pre: permission of faculty member
who will be project advisor. May be
repeated. Staff

4. College of Resource Development

Department of Plant Sciences

**CHANGE: Description for PLS 476 by adding "Not
for graduate credit."

B. Curricular Matters Which Require Confirmation by the Faculty
Senate

1. College of Arts and Sciences

a. Department of Biological Sciences

- 1) CHANGE: Course code to BIO for the following:

BOT 419, 432, 451, 453, 454; BOT or ZOO
437, 455, 457, ZOO 441, 442, 444, 445,
446, 460.
- 2) CHANGE: Course code to BIO and number for the
following courses:
 - a) BOT 445 to BIO 447
 - b) ZOO 454 to ZOO 464
- 3) CHANGE: Course code for BOT 418 to BIO and
prerequisite to "Pre: two courses in
biological sciences, including 112 or
equivalent."
- 4) CHANGE: Course code for BOT 491, 492 to BIO and
grading method to "S/U only."
- 5) DELETE: ZOO 491, 492 Research in Animal Biology
(I, II, or SS, 1-3 each)

* No action by the Graduate Council. Not for graduate credit.

** The companion course, PLS 576, was approved by the Graduate
Council on January 24, 1997 and is included in Graduate Council
Report No. 1996-97-5.

b. Department of Languages - French

1) ADD: The following courses:

- a) FRN 408 The French Language: Past, Present and Future (II, 3) Introduction to the history and present state of French. Study of standard and colloquial French, dialects, regional variations, language of youth and professions. Current tendencies; the Francophone movement. (Lec. 3) Pre: 304 or permission of instructor. Rogers
- b) FRN 412 Topics in French Culture and Literature (I and II, 3) Topics in French literature and culture. (Lec. 3) Pre: 309 or 310 or permission of instructor. May be taken more than once for credit on different topics. Staff

2) DELETE: The following courses:

- a) FRN 411 Medieval Literature (I, 3)
- b) FRN 433 Seventeenth-Century Literature (I, 3)
- c) FRN 443 Eighteenth-Century Literature (I, 3)
- d) FRN 453 Nineteenth-Century Literature Until 1848 (I, 3)
- e) FRN 454 Nineteenth-Century Literature Since 1848 (II, 3)
- f) FRN 461 Twentieth-Century Theatre (I, 3)
- g) FRN 465 Twentieth-Century Prose (I, 3)

c. Department of Music

- 1) CHANGE: Level and number for MUS 317 to "MUS 416."
- 2) CHANGE: Level and number for MUS 321 to "MUS 417" and prerequisite to "Pre: 227 or equivalent."

2. College of Engineering

Department of Electrical and Computer Engineering

- *CHANGE: Level and number for ELE 323 to "ELE 423," semester to "I" and add to description "Not for graduate credit."

* No action by the Graduate Council. Not for graduate credit.

3. College of Resource Development

Department of Natural Resources Science

ADD: NRS 426 Soil Microbiology (II, 3)
Occurrence, metabolism and ecology of soil
microorganisms, with emphasis on nutrient
cycling, soil pathogens, transformation of
organic and inorganic pollutants, and soil
biotechnology. (Lec 3) Pre: 212 or
permission of instructor. Amador